

## AMENDMENTS TO THE CLAIMS

1. (canceled)
2. (currently amended) ~~A~~The process for preparing catalyst systems as claimed in claim ~~1~~6, wherein ~~a magnesium compound  $MgR^1_2$  is used in step B)~~n is 2.
3. (currently amended) ~~A~~The process for preparing catalyst systems as claimed in claim ~~1~~6, wherein the halogenating reagent used in step C) is chloroform.
4. (currently amended) ~~A~~The process for preparing catalyst systems as claimed in claim ~~1~~6, wherein the inorganic metal oxide used in step A) is a silica gel.
5. (canceled)
6. (currently amended) A process for preparing catalyst systems ~~as claimed in claim 1 of the~~  
Ziegler Natta type, which comprises the following steps:
  - A) bringing an inorganic metal oxide into contact with ~~a tetravalent titanium compound~~titanium tetrachloride; and
  - B) bringing the intermediate obtained from step A) into contact with a magnesium compound  $MgR^1_nX^1_{2-n}$ , where  $X^1$  are each, independently of one another, fluorine, chlorine, bromine, iodine, hydrogen,  $NR^X_2$ ,  $OR^X$ ,  $SR^X$ ,  $SO_3R^X$  or  $OC(O)R^X$ , and  $R^1$  and  $R^X$  are each, independently of one another, a linear, branched or cyclic  $C_1$ - $C_{20}$ -alkyl, a  $C_2$ - $C_{10}$ -alkenyl, an alkylaryl having 1-10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or a  $C_6$ - $C_{18}$ -aryl and n is 1 or 2,
  - C) bringing the intermediate obtained from step B) into contact with a halogenating reagent of the formula  $R^Y_s-E-Y_{4-s}$ , where  $R^Y$  are each, independently of one another, hydrogen, a linear, branched or cyclic  $C_1$ - $C_{20}$ -alkyl, a  $C_2$ - $C_{10}$ -alkenyl, an alkylaryl having 1-10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or a

C<sub>6</sub>-C<sub>18</sub>-aryl, E is carbon or silicon, Y is fluorine, chlorine, bromine or iodine and s is 0, 1, 2 or 3 when E is carbon and s is 1, 2 or 3 when E is silicon, and

D) ~~optionally~~ bringing the intermediate obtained from step C) into contact with a donor compound containing at least one nitrogen atom.

7. (canceled)

8. (currently amended) A catalyst system of the Ziegler-Natta type ~~which can be prepared by~~ the process as claimed in claim 4.

9. (currently amended) ~~A prepolymerized~~ The catalyst system comprising a catalyst system as claimed in claim ~~7 and~~ 8, further comprising prepolymerized linear C<sub>2</sub>-C<sub>10</sub>-1-alkenes ~~polymerized onto it~~ in a mass ratio of from 1:0.1 to 1:200.

10. (currently amended) A process for the polymerization or copolymerization of olefins at from 20 to 150°C and pressures of from 1 to 100 bar in the presence of at least one catalyst system as claimed in claim 8 and, ~~if appropriate~~ optionally, an aluminum compound as cocatalyst.

11. (currently amended) ~~A~~ The process for the polymerization or copolymerization of olefins as claimed in claim 10, wherein a trialkylaluminum compound whose alkyl groups each have from 1 to 15 carbon atoms is used as the aluminum compound.

12. (currently amended) ~~A~~ The process for the polymerization or copolymerization of olefins as claimed in claim 10, wherein ethylene or a mixture of ethylene and C<sub>3</sub>-C<sub>8</sub>-α-monoolefins is (co)polymerized.

13. (canceled)